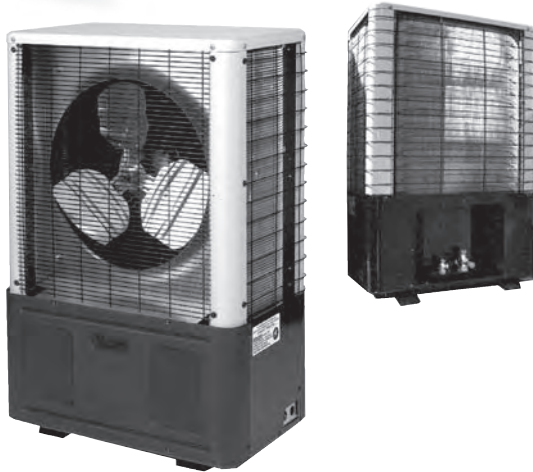


CONCEPT - 2
HIGH SEER SINGLE ZONE DUCTLESS
SPLIT CONDENSING UNIT

P/N 240004550, Rev. 1.4 [02/06]

SPECIFICATIONS AND PERFORMANCE



COOLING ONLY-C2C

Nominal Capacities: 9,000,
12,000, 15,000, 18,000, 24,000 Btuh

PRODUCT DESCRIPTION

The AmericaSeries C2C single zone condensing unit is designed to meet or exceed a SEER rating of 13.0 when installed with the AmericaSeries line of evaporators identified on page 2 of this Specification Sheet. The system is offered for straight cool applications. Available in nominal capacities of 9,000, 12,000, 15,000, 18,000 and 24,000 Btuh, the C2C system can be recommended in both commercial and residential applications.

CONDENSER STANDARD FEATURES

- ▲ **Cabinet**
 - Vertically arranged side discharge
 - Scratch and dent resistant injection molded front access panel
 - Powder coated (2000 hour salt spray tested) 18 and 20 gauge aluminized steel
 - Concealed service valves
 - Easy access hose connections at 45° from valve body
- ▲ **Compressor** is hermetically sealed high efficiency rotary, reciprocating or scroll (depending on capacity).

Benefit: These are the most efficient (power saving) and durable compressors available for the widest range of Ductless Split system applications.

- ▲ **Coil** is U-shaped and protected by a wire coil guard. Construction is seamless copper tubing with enhanced aluminum fins. The tubes are mechanically expanded for secure bonding to fin shoulder.

Benefit: The U-shaped coil obtains the most heat transfer surface possible in the smallest footprint to gain the optimum system efficiency.

CONDENSER STANDARD FEATURES *Continued*

- ▲ **Fan/Motor** - Fan is a large diameter, high efficiency, three blade propeller type. Motor is PSC type with internal overload protection.

Benefit: The motor is a "Clam-shell style" two piece construction (vs. standard three piece construction) to decrease size and enhance its contribution to system efficiency by reducing power (Watts) consumed.

- ▲ **Precharged For Condenser And Evaporator:** (Charging of field installed piping required)
 - Refrigeration valves – solid brass, sweat connection, easy to access ports
 - Up to 100' length interconnect (excluding 09P)
- ▲ **Duratec Performance Package (09-15 only)**
 - Oversized suction accumulator with surge baffles and enhanced oil management
 - Factory installed solid core filter drier
 - Loss of charge switch

Benefit: The Duratec Performance Package allows for the widest range of application in the Ductless Split industry. We fully protect the compressor for a range of outdoor ambient conditions and system applications, which extends the life of the system and virtually eliminates failures.

SYSTEM OPTIONS

- Low Ambient controls (specify this option if the system will operate in cooling mode at outside temperatures below 60° F)
 - Field Installed Kit – for operation down to 32° F
 - Factory Built – for operation down to 0° F (consult factory for availability)
- Hard Start
- 115V (9,000-12,000 Btuh only) - *consult factory for availability*
- Copper/copper coils (sea coast use)
- Extended length for 09P up to 100' interconnect

NOTE: CHP 12/24 and WHP 12/18/30 the units built after 4/05 may need a Piston/Orifice change at time of installation (factory supplied) see charts below.

CHP12/24 Piston/Orifice Installation Instruction					
Model # Air Handler	Condenser Btuh	Factory Installed		Field Changeover	
		Part # Piston/Orifice	Piston/Orifice Size	Part # Piston/Orifice	Piston/Orifice Size
CHP12	9,000	240-4064	.044"	240-727	.041"
	12,000			NO CHANGE	
CHP24	18,000	240-728	.059"	240-1010	.049"
	24,000			NO CHANGE	

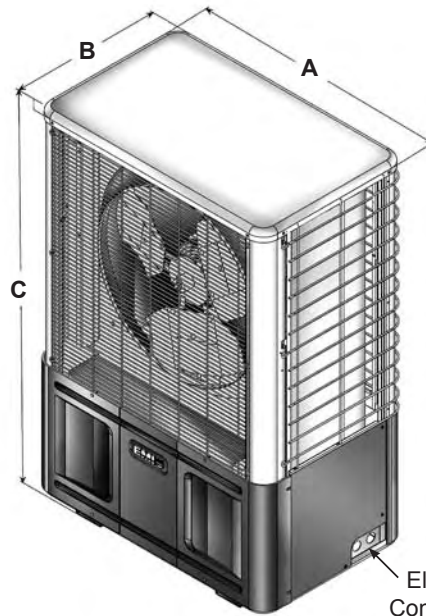
WHP12/18/30 Piston/Orifice Installation Instruction					
Model # Air Handler	Condenser Btuh	Factory Installed		Field Changeover	
		Part # Piston/Orifice	Piston/Orifice Size	Part # Piston/Orifice	Piston/Orifice Size
WHP12	9,000	240-4064	.044"	240-727	.041"
	12,000			NO CHANGE	
WHP18	15,000	240-4111	.053"	240-1010	.049"
	18,000			NO CHANGE	
WHP30	24,000	240-2089	.063"	240-3961	.059"
	30,000			NO CHANGE	

C2C SPECIFICATIONS AND DIMENSIONS

NOTE: All EMI products are subject to ongoing development. Design and specifications may change without notice.

System Performance Data: Matched With EMI AmericaSeries Indoor Units

Cooling Systems Only			
C2C Model	Air Handler Model	Btuh	SEER
09	CAH12	9,000	13
09	CHP12	9,900	13
09	WHP12	9,000	13
12	CHP12	12,000	13
12	WHP12	12,000	13
15	WHP18	14,100	13
18	CAH 24	18,000	13
18	CHP24	19,000	13
18	WHP18	17,800	13
24	WHP30	24,000	13

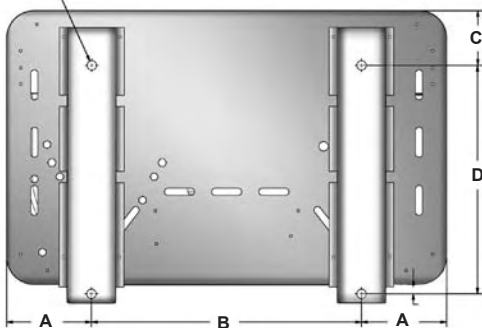


Interconnecting Tubing Specifications				
C2C Model	MAX. Length	Max. Lift	Liquid Line O.D.	Suction Line O.D.
09P	50'	25'	1/4"	1/2"
09T	100'	35'	1/4"	1/2"
12T	100'	35'	1/4"	1/2"
15T	100'	35'	3/8"	5/8"
18	100'	35'	3/8"	5/8"
24	100'	35'	3/8"	3/4"

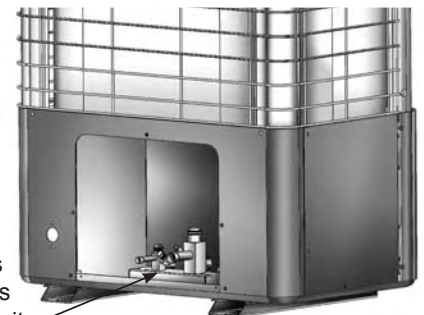
Physical Dimensions			
Model Size C2C	A	B	C
09, 12, 15	24"	15"	36"
18	32"	15"	36"
24	32"	15"	40"

C2C Electrical Specifications									
Model #	Volts/HZ/PH	Fan Motor		Compressor		Total AMPS	Min Volt	M.C.A.	HACR BRKR
		AMPS	HP	RLA	LRA				
09AT	115/60/1	1.6	0.125	6.6	39.2	8.2	104	9.9	15
12AT	115/60/1	1.6	0.125	9.7	54.0	11.3	104	13.7	20
09DL	208/230/60/1	0.8	0.125	3.5	19.0	4.3	197	5.2	15
09DP	208/230/60/1	0.8	0.125	3.3	21.0	4.1	197	4.9	15
09DT	208/230/60/1	0.8	0.125	3.4	23.0	4.2	197	5.1	15
12DL	208/230/60/1	0.8	0.125	4.5	21.0	5.3	197	6.4	15
12DT	208/230/60/1	0.8	0.125	4.8	26.3	5.6	197	6.8	15
15DL	208/230/60/1	0.8	0.125	6.0	27.0	6.8	197	8.3	15
15DT	208/230/60/1	0.8	0.125	5.4	29.0	6.2	197	7.6	15
18DC	208/230/60/1	0.8	0.125	6.3	41.0	7.1	197	8.7	15
18DR	208/230/60/1	0.8	0.125	6.2	41.0	7.0	197	8.6	15
24DB	208/230/60/1	0.8	0.125	8.5	64.0	9.3	197	11.4	20
24DC	208/230/60/1	0.8	0.125	8.6	54.0	9.4	197	11.6	20
24DR	208/230/60/1	0.8	0.125	8.8	55.0	9.6	197	11.8	20

1/2" Diameter Lag Holes



Sound Data	
Model #	dBA
C2C09	61
C2C12	61
C2C15	62
C2C18	64
C2C24	65



MOUNTING DIMENSIONS				
Model Size	A	B	C	D
09, 12, 15	4 5/8"	14 11/16"	3"	12 7/16"
18, 24	4 5/8"	22 11/16"	3"	12 7/16"

